

CLAIMS

I claim:

1. A composite hockey stick having an elongated shaft body having opposed first and second ends, :
 - 5 said shaft body having a constraining inner layer comprising a thin-wall composite fibers construction disposed in a matrix material

 said constraining layer being overlaid with a coating of viscoelastic material.
 2. The composite hockey stick shaft of claim 1 wherein said viscoelastic
 10 layer is disposed along the whole length of said body.
 3. The composite hockey stick shaft of claim 1 wherein said viscoelastic layer is selected from a group comprising thermoplastic rubber modified adhesive, polyester, urethane, polyurethane, mylar, tedlar silicone and epoxy films.
 - 15 4. The composite hockey stick shaft of claim 5 wherein said viscoelastic layer has a thickness in the range of about 5 to 25 thousands of an inch.
 5. The composite hockey stick shaft of claim 5 wherein said viscoelastic layer has a thickness in the range of about 10 to 22.5 thousands of an
 20 inch.
 6. The composite hockey stick shaft of claim 5 wherein said viscoelastic layer has a thickness of about 20 thousands of an inch.
 7. A composite hockey stick shaft having an elongated body having four side wall members, at least one said side wall members comprising
 25 an inner layer of fibers disposed within a matrix material,

 a layer of viscoelastic material anchored onto to the outside surface of said inner layer,

an outer layer of fibers disposed within a matrix material, said outer layer being disposed on and abutting the outside of said layer of viscoelastic material.

- 5 8. The composite hockey stick shaft of claim 7 wherein said inner layer and said outer layer have substantially the same thickness.
9. The composite hockey stick shaft of claim 7 wherein said viscoelastic layer is disposed along the whole length of said body.
- 10 10. The composite hockey stick shaft of claim 7 wherein said viscoelastic layer is selected from a group comprising thermoplastic rubber modified adhesive, polyester, urethane, polyurethane, mylar, tedlar silicone and epoxy films.
11. The composite hockey stick shaft of claim 10 wherein said viscoelastic layer has a thickness in the range of about 5 to 25 thousands of an inch.
- 15 12. The composite hockey stick shaft of claim 10 wherein said viscoelastic layer has a thickness in the range of about 10 to 22.5 thousands of an inch.
13. The composite hockey stick shaft of claim 10 wherein said viscoelastic layer has a thickness of about 20 thousands of an inch.